

We Claim:

1. A sealing structure for an inflow opening of a blower housing, the blower housing being associated with a centrifugal blower wheel, the centrifugal blower wheel and an inner side of the blower housing defining an air gap therebetween, the sealing structure comprising:

a sealing ring; and

a buffer part connected to said sealing ring, said buffer part shaped to surround the inflow opening of the blower housing in a sealing manner; and

said sealing ring and said buffer part adapted to be disposed in the inflow opening to substantially fill the air gap between the centrifugal blower wheel and the inner side of the blower housing and to protrude from the blower housing.

2. The device according to claim 1, wherein said buffer part has an outer contour adapted to an inner contour of an opening to be sealed.

3. The device according to claim 1, wherein said sealing ring is of a material suitable for grinding in by the centrifugal blower wheel when said sealing ring is in an installed position on the blower housing.

4. The device according to claim 1, wherein said buffer part is of an elastic material.
5. The device according to claim 1, wherein said sealing ring and said buffer part are formed as a one-piece body and from one material.
6. The device according to claim 1, wherein said sealing ring and said buffer part are integral.
7. The device according to claim 1, wherein said buffer part tapers conically at a portion to be disposed outside the inflow opening.
8. The device according to claim 1, wherein at least one of said sealing ring and said buffer part are of material having a hardness of between approximately 40 Shore and approximately 50 Shore.
9. The device according to claim 1, wherein at least one of said sealing ring and said buffer part are of material having a strength of between approximately 10 N/mm² and approximately 20 N/mm².

10. The device according to claim 1, wherein at least one of said sealing ring and said buffer part are of material having an elasticity of between approximately 40% and approximately 60%.

11. The device according to claim 1, wherein at least one of said sealing ring and said buffer part are of material that can elongate to between approximately 150% to approximately 300%.

12. The device according to claim 8, wherein said material maintains said hardness even after ageing under operating conditions in a floor-treating appliance with continuous vibrational loading and elevated temperatures.

13. The device according to claim 9, wherein said material maintains said strength even after ageing under operating conditions in a floor-treating appliance with continuous vibrational loading and elevated temperatures.

14. The device according to claim 10, wherein said material maintains said elasticity even after ageing under operating conditions in a floor-treating appliance with continuous vibrational loading and elevated temperatures.

15. The device according to claim 11, wherein said material maintains said elongatability even after ageing under operating conditions in a floor-treating appliance with continuous vibrational loading and elevated temperatures.

16. The device according to claim 1, wherein:

said sealing ring has a given elasticity; and

said buffer part has a clearance setting an elasticity thereof to be different from said given elasticity.

17. The device according to claim 16, wherein said clearance is a plurality of clearances in the form of approximately equidistant blind holes.

18. The device according to claim 1, wherein said sealing ring is of an elastic material and is to be slipped by the centrifugal blower wheel when said sealing ring is on the blower housing in an installed position.

19. A blower configuration, comprising:

an electric motor;

a drive shaft connected to said motor;

a centrifugal blower wheel rotationally fixedly connected to said drive shaft;

a blower housing having a inflow opening and an inner side and being configured to form a directed air stream, said blower housing surrounding said centrifugal blower wheel, said centrifugal blower wheel and said inner side of said blower housing defining an air gap therebetween;

a seal having:

a sealing ring; and

a buffer part connected to said sealing ring and surrounding said inflow opening in a sealing manner; and

said seal being disposed in said inflow opening and substantially filling said air gap between said centrifugal blower wheel and said inner side of said blower housing and protruding from said blower housing.

20. In a blower configuration having:

an electric motor;

a drive shaft connected to the motor;

a centrifugal blower wheel rotationally fixedly connected to the drive shaft; and

a blower housing having a inflow opening and an inner side and being configured to form a directed air stream, the blower housing surrounding the centrifugal blower wheel, the centrifugal blower wheel and the inner side of the blower housing defining an air gap therebetween;

a sealing structure comprising:

a sealing ring; and

a buffer part connected to said sealing ring, said buffer part shaped to surround the inflow opening of the blower housing in a sealing manner; and

said sealing ring and said buffer part adapted to be disposed in the inflow opening to substantially fill the air gap between the centrifugal blower wheel and the inner side of the blower housing and to protrude from the blower housing.